

Manufacturers' Shipments, Inventories, and Orders

JANUARY 1982

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U.S. Department of Commerce
BUREAU OF THE CENSUS



(All figures in text below are in seasonally adjusted current dollars.)

New orders for manufactured goods in January declined \$1.9 billion or 1.2 percent to \$157.6 billion, the Department of Commerce, Bureau of the Census reported today. Since orders peaked last July at \$172.6 billion, new orders have declined each month, except November when they recovered slightly from a large drop in October. Excluding the defense capital goods category, new orders declined 2.0 percent.

Shipments of manufactured goods declined for the seventh consecutive month. The January decrease was \$3.9 billion or 2.4 percent to \$157.2 billion. The book value of manufacturers' inventories declined \$1.1 billion or 0.4 percent following a decrease in December of 1.1 percent. Despite the reduction in the January inventory levels, the inventory to shipments ratio increased in January to 1.75 from 1.72 in December.

The decline in new orders for manufactured goods in January was widespread. Within the durable goods industries, which were down in total \$1.4 billion or 1.7 percent to \$78.4 billion, all major industries except transportation equipment showed decreases. Excluding defense capital goods, new orders for durables were down 3.5 percent. New orders for primary metals were down for the sixth consecutive month, as a decline in steel orders of \$0.3 billion or 6.5 percent to \$4.6 billion was partially offset by increases in nonferrous metals and foundry orders. New orders for nonelectrical machinery were off \$2.2 billion or 12.6 percent while orders for electrical machinery were down \$0.1 billion or 1.1 percent.

New orders for transportation equipment had a large increase in January, going up \$2.0 billion or 12.5 percent to \$18.1 billion. New orders for the aircraft and shipbuilding categories, both of which are heavily influenced by defense orders, together were up \$3.3 billion. New orders in the motor vehicle and parts industry were down \$1.3 billion or 13.1 percent to \$8.8 billion.

Within the capital goods industries, new orders for defense capital goods were up \$1.2 billion or 21 percent to \$7.3 billion following increases in December of 24 percent and in November of 27 percent.

New orders for nondefense capital goods were down \$0.3 billion or 1.3 percent, as a large decline in nonelectrical machinery orders was partially offset by an increase in the aircraft, missiles and parts category.

The decline in shipments of manufactured products in January of \$3.9 billion or 2.4 percent to \$157.2 billion was caused

mostly by decreases in the durable goods components. The largest were in the motor vehicle and parts industry, down \$1.1 billion or 11.1 percent to \$8.9 billion; the aircraft, missiles and parts industry, down \$0.9 billion or 16.6 percent to \$4.5 billion; and the nonelectrical machinery industry, down \$1.0 billion or 5.6 percent to \$16.5 billion. The only significant increase in shipments came from the primary metals category, where an increase of \$0.8 billion or 8.0 percent to \$10.6 billion followed 4 months of declines.

Shipments of nondurable goods were down \$0.7 billion or 0.9 percent to \$79.2 billion. The chemical industries showed the largest dollar decline, down \$0.5 billion or 3.3 percent.

The backlog of orders for manufactured goods in January valued at \$320.3 billion, increased \$0.4 billion, following 3 months of declines. A \$2.8 billion rise in the transportation equipment backlog was offset by declines in nearly all the other major durable goods industry categories. The increase in the transportation equipment backlog was due almost entirely to defense order increases. The backlog for defense capital goods at the end of the month stood at \$83.9 billion, up 3.8 percent from December.

The decline in the book value of manufacturers' inventories in January was distributed across nearly all industries, both durable and nondurable. Durable goods inventories were down \$0.8 billion or 0.4 percent to \$184.4 billion while nondurable goods inventories were down \$0.3 billion or 0.3 percent to \$90.9 billion.

The pattern of change in inventories by stage of fabrication was different between the durable and nondurable goods categories. For the durable goods industries, the value of finished goods inventories declined 1.7 percent, while the value of raw materials and work-in-process inventories showed little change from December. Within the nondurable goods industries all stages of fabrication had small decreases in January.

The figures on the durable goods industries in this report supersede those issued earlier in the advance report on durable goods. The present report is based on more complete reporting, but the estimates are also considered preliminary. Final figures will appear as historical data in the report to be published for next month. The advance report on durable goods for February is scheduled for release on March 19, 1982, and the full report is scheduled for release on March 30, 1982.

Address inquiries concerning these figures to U.S. Department of Commerce, Bureau of the Census, Industry Division, Washington, D.C. 20233, or call Ruth Runyan or Kathleen Swindell-Menth, (301) 763-2502.

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Table 1. VALUE OF MANUFACTURERS' SHIPMENTS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES
(Millions of dollars)

SIC	Industry	Seasonally adjusted					Quarterly III 1981	Monthly										Not seasonally adjusted ¹				Annual	
		Monthly						Last 4 months										Last 4 months a year ago				1981	1980
		Jan. 1982 ^b	Dec. ^c 1981	Nov. 1981	Oct. 1981	III 1981		IV ^d 1981	Oct. 1981	Nov. 1981	Dec. ^e 1981	Jan. 1982 ^b	Dec. ^e 1981	Nov. 1981	Oct. 1981	Jan. 1981	Dec. 1980	Nov. 1980	Oct. 1980				
TOTALS																							
	All manufacturing industries.....	157,157	161,081	161,979	164,085	487,145	508,423	506,512	145,267	155,673	161,275	170,346	152,094	157,597	161,492	167,307	1,997,775	1,845,934					
	Manufacturing industries excluding transportation.....	141,884	143,654	145,176	146,887	435,717	451,069	447,982	131,266	139,004	143,842	151,518	136,559	140,945	143,236	147,664	1,778,014	1,654,546					
	Manufacturing industries with unfilled orders.....	83,403	85,591	86,346	86,556	258,493	268,852	266,373	76,192	83,594	85,774	90,073	78,356	82,996	84,366	87,466	1,054,826	967,077					
	Durable goods industries.....	77,925	81,146	81,641	82,583	245,370	260,339	261,761	70,473	78,345	80,945	86,763	75,385	79,978	82,459	86,823	1,019,879	936,150					
	Durable goods with unfilled orders.....	66,635	68,641	69,331	69,650	207,622	217,285	215,863	60,399	67,313	68,622	72,347	63,132	67,673	68,457	71,023	852,225	782,636					
	Nondurable goods industries.....	79,232	79,935	80,338	81,502	241,775	248,084	244,751	74,794	77,328	80,330	83,583	76,709	77,619	79,033	80,484	977,896	909,903					
	Nondurable goods with unfilled orders.....	16,768	16,950	17,015	16,906	50,871	51,567	50,510	15,793	16,281	17,152	17,726	15,224	15,323	15,909	16,443	202,600	184,441					
MARKET CATEGORIES																							
	Home goods and apparel.....	11,149	11,088	11,793	11,971	34,852	37,409	37,089	9,569	9,721	12,435	13,476	10,203	10,116	12,256	13,278	145,530	135,105					
	Consumer staples.....	28,471	28,551	28,506	28,664	85,721	87,405	86,554	26,405	28,409	29,098	29,725	26,796	28,946	28,727	29,413	345,664	339,447					
	Equipment and defense products, except automotive.....	24,868	27,045	26,236	25,163	78,444	77,437	76,364	22,358	28,253	25,459	25,485	21,792	25,159	23,443	24,500	306,690	277,289					
	Automotive equipment.....	10,464	11,678	11,600	12,442	35,720	42,296	43,191	9,798	10,313	12,133	14,182	11,440	11,288	13,234	14,800	158,828	134,879					
	Construction materials, supplies, and intermediate products.....	11,169	11,392	11,564	11,925	34,881	37,353	38,564	9,283	10,508	11,343	12,662	10,827	11,854	12,558	13,440	149,928	143,458					
	Other materials, supplies, and intermediate products.....	71,036	71,327	72,280	73,920	217,527	226,523	224,749	67,854	68,469	70,807	74,816	71,036	70,235	71,274	73,426	891,128	825,553					
SUPPLEMENTARY SERIES ²																							
	Household durable goods indus- tries.....	5,033	4,921	5,128	5,194	15,243	16,146	16,241	4,287	4,583	5,308	5,799	4,377	4,626	5,186	5,749	63,343	58,493					
	Capital goods industries.....	27,181	29,377	28,935	27,871	86,183	85,974	84,469	24,583	30,697	28,444	28,214	24,184	27,899	26,740	26,887	338,562	308,168					
	Nondefense.....	22,967	24,750	24,433	23,534	72,717	73,112	72,453	20,693	25,841	24,007	23,825	20,892	24,026	22,548	23,189	288,611	267,110					
	Defense.....	4,214	4,627	4,502	4,337	13,466	12,862	12,017	3,890	4,856	4,437	4,389	3,291	3,873	3,763	3,698	49,948	41,358					
INDUSTRY GROUPS AND INDUSTRIES																							
	Durable goods industries:																						
32	Stone, clay, and glass products.....	3,798	3,822	3,860	3,845	11,527	12,278	12,680	3,173	3,400	3,824	4,164	3,476	3,665	3,977	4,259	49,051	46,518					
322	Glass containers.....	506	481	494	492	1,467	1,527	1,567	458	441	476	502	419	415	405	425	5,948	5,923					
33	Primary metals.....	10,588	9,803	10,635	11,065	31,503	35,561	35,325	9,771	9,090	10,114	11,191	11,353	10,981	11,130	11,446	137,970	134,051					
331	Blast furnaces, steel mills.. Nonferrous and other primary metals.....	5,409	5,144	5,518	5,710	16,372	18,268	18,482	4,960	4,779	5,154	5,698	5,765	5,639	5,536	5,430	70,933	62,481					
333-9	Fabricated metal products.....	4,217	3,828	4,152	4,368	12,448	14,018	13,454	3,926	3,568	3,999	4,442	4,505	4,336	4,519	4,885	54,039	58,485					
34	Metal cans, barrels, and drums.....	9,192	9,440	9,494	9,989	28,923	31,265	31,644	8,324	8,550	9,297	10,497	9,263	10,010	10,232	10,789	123,117	116,868					
341	Machinery, except electrical.. Engines and turbines.....	921	872	812	797	2,481	2,441	2,488	758	696	671	769	720	737	695	695	822	9,991	10,199				
35	Farm machinery and equipment.. Construction, mining, and material-handling equipment.. Metalworking machinery.....	16,450	17,417	17,446	16,924	51,787	51,669	50,914	14,916	17,959	16,675	17,136	15,160	16,545	15,349	16,243	204,644	182,837					
351		1,322	1,319	1,492	1,393	4,204	4,404	4,101	1,243	1,320	1,399	1,346	1,294	1,193	1,154	1,181	16,447	13,839					
352		862	1,168	1,151	1,182	3,501	3,800	3,800	846	954	935	1,266	1,195	1,011	1,001	1,308	14,748	13,699					
353		3,194	3,605	3,588	3,383	10,576	10,166	9,856	3,066	3,414	3,333	3,420	3,069	2,917	2,729	3,004	40,166	35,287					
354		1,246	871	911	1,001	2,783	2,989	2,910	1,101	915	885	1,000	857	1,045	972	991	11,636	11,185					
356		1,294	1,485	1,480	1,474	4,439	4,383	4,282	1,159	1,476	1,409	1,550	1,130	1,376	1,295	1,453	17,174	15,987					

See footnotes at end of table.

Table 1. VALUE OF MANUFACTURERS' SHIPMENTS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES--Continued

(Millions of dollars)

SIC	Industry	Seasonally adjusted					Not seasonally adjusted ¹											
		Monthly					Quarterly					Monthly					Annual	
		Monthly					Quarterly					Last 4 months a year ago					1991	
		Jan. 1982 ^p	Dec. 1981 ^r	Nov. 1981	Oct. 1981	IV 1981 ^r	III 1981	II 1981	Jan. 1982 ^p	Dec. 1981 ^r	Nov. 1981	Oct. 1981	Jan. 1981	Dec. 1980	Nov. 1980	Oct. 1980		
	INDUSTRY GROUPS AND INDUSTRIES-- Continued																	
	Durable goods and industries-- Continued																	
36	Electrical machinery.....	11,132	11,159	11,433	11,262	33,854	35,062	34,649	10,321	11,012	11,583	11,839	9,986	10,596	11,201	11,459	136,583	136,583
361,2	Electrical transmission and distribution apparatus.....	1,768	1,887	1,903	1,868	5,658	5,901	5,738	1,694	1,783	1,873	1,897	1,640	1,821	1,879	1,878	22,697	22,697
363	Household appliances.....	941	953	1,058	1,020	3,031	3,291	3,459	798	876	961	1,002	1,008	999	1,066	1,187	13,179	13,179
365	Radio and TV.....	1,009	846	802	838	2,486	2,765	2,486	839	868	961	1,002	721	800	1,019	993	10,777	10,777
366	Communication equipment.....	3,241	3,175	3,242	3,245	9,662	9,825	9,507	2,999	3,282	3,213	3,239	2,656	2,862	2,862	3,755	37,863	37,863
367	Electronic components.....	2,367	2,418	2,357	2,243	7,018	7,124	6,910	2,270	2,293	2,367	2,348	2,157	2,224	2,376	2,419	27,955	27,955
37	Transportation equipment.....	15,273	17,427	16,803	17,198	51,428	57,354	58,531	14,001	16,669	17,433	18,828	15,535	16,653	18,256	19,643	219,761	219,761
371	Motor vehicles and parts.....	8,904	10,018	10,018	10,686	30,722	36,731	37,622	8,431	9,939	10,670	12,299	9,980	9,860	11,594	12,908	137,404	137,404
372,6	Aircraft, missiles, and parts.....	4,509	5,408	4,789	4,550	14,747	14,218	14,459	3,896	5,678	4,826	4,475	3,738	4,751	4,678	4,617	57,171	57,171
3731	Shipbuilding and military tank vehicles.....	1,140	1,163	1,216	1,095	3,474	3,616	3,520	1,036	1,301	1,214	1,167	990	1,129	1,018	1,016	13,969	13,969
3795	Instruments and related products.....	3,908	4,241	4,146	4,241	12,628	12,812	12,495	3,525	4,237	4,251	4,395	3,641	4,059	4,104	4,124	50,233	50,233
381-4	Scientific and engineering products.....	2,318	2,544	2,455	2,551	7,550	7,508	7,208	2,188	2,542	2,445	2,583	2,221	2,384	2,308	2,314	29,417	29,417
386	Photographic goods.....	1,364	1,451	1,402	1,429	4,282	4,442	4,367	1,139	1,472	1,509	1,511	1,183	1,422	1,532	1,522	17,364	17,364
24	All other durable goods industries.....	7,584	7,837	7,824	8,059	23,720	24,338	25,524	6,442	7,128	7,768	8,713	6,971	7,471	8,150	8,820	98,503	98,503
20	Non-durable goods industries:																	
201	Food and kindred products.....	21,411	21,296	21,493	22,077	64,866	67,512	67,307	19,898	21,343	21,900	22,763	20,901	22,383	22,574	22,677	266,111	266,111
208	Meat products.....	5,492	5,319	5,506	5,582	16,407	17,322	16,070	5,343	5,583	5,550	5,817	5,241	5,400	5,509	5,513	65,465	65,465
209	Beverages.....	3,057	2,906	2,779	2,898	8,383	8,948	9,124	2,556	2,927	2,824	3,055	2,400	2,555	2,891	3,131	35,316	35,316
203	Fats and oils.....	1,607	1,774	1,665	1,746	5,189	5,375	5,124	1,590	1,749	1,717	1,772	1,771	1,752	1,830	1,672	20,966	20,966
203-6,9	All other foods.....	8,411	8,243	8,451	8,752	25,446	26,509	27,271	7,679	8,573	8,680	9,023	8,633	9,773	9,602	9,538	107,017	107,017
21	Tobacco products.....	1,181	1,193	1,173	1,099	3,465	3,592	3,283	1,134	1,218	1,199	1,164	1,037	1,159	1,091	1,167	13,623	13,623
22	Textile mill products.....	3,922	3,875	3,934	4,061	11,870	13,337	13,012	3,547	3,703	4,001	4,320	3,684	3,689	3,902	4,006	50,682	50,682
26	Paper and allied products.....	6,599	6,553	6,533	6,489	19,575	19,476	19,354	6,348	6,993	6,347	6,581	6,036	6,689	5,980	6,269	77,745	77,745
261-3	Pulp, paper, etc.....	2,832	2,819	2,906	2,823	8,548	8,674	8,480	2,695	2,632	2,851	2,877	2,610	2,646	2,752	34,182	34,182	34,182
265	Paperboard containers.....	1,581	1,580	1,675	1,590	4,845	4,999	4,970	1,436	1,436	1,630	1,679	1,486	1,420	1,482	1,604	19,657	19,657
264	All other paper products.....	2,186	2,154	1,952	2,076	6,182	5,803	5,904	1,925	1,925	1,866	2,025	1,939	1,789	1,809	1,903	23,904	23,904
28	Chemicals and allied products.....	15,267	15,794	15,328	15,053	46,175	46,406	46,875	14,431	14,800	14,477	14,787	14,074	14,609	13,619	14,331	182,343	182,343
281,6	Industrial chemicals, except pigments.....	4,956	5,171	5,128	5,245	15,544	16,229	16,135	4,758	4,949	4,785	5,003	4,979	4,885	5,124	5,124	63,999	63,999
283,4	Drugs, soap, and toiletries.....	3,918	4,247	3,903	3,707	11,857	11,382	10,998	3,734	4,056	3,798	3,833	3,781	3,984	3,572	4,066	44,890	44,890
29	Petroleum and coal products.....	15,405	15,542	15,830	16,479	47,851	48,313	48,730	15,437	15,466	15,778	16,249	16,866	15,880	15,653	14,977	194,703	194,703
30	Rubber and plastics products, n.e.c.....	3,797	3,698	3,642	3,945	11,285	12,056	11,886	3,501	3,329	3,525	4,152	3,617	3,530	4,027	4,344	46,640	46,640
23	All other non-durable goods industries.....	11,650	11,984	12,405	12,299	36,688	37,392	36,304	10,498	11,096	13,103	13,567	10,495	10,513	12,187	12,713	146,030	146,030
31																		

^pPreliminary.^rRevised.

¹Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations; unfilled orders and inventories are as of the end of the period and are not adjusted for trading-day or calendar-month variations.

²The supplementary series are regroupings of the separate industry categories as follows:

Household durable goods industries--Household furniture; kitchen articles and pottery, cutlery, handtools, and hardware; household appliances; radio and TV; ophthalmic goods, watches, and clocks; and miscellaneous personal goods.

Capital goods industries--Comparable to the previous producers' capital goods and the defense products (old series) categories.

Nondefense products--Machinery, except electrical (excluding farm machinery and equipment and machine shops), electrical machinery (excluding household appliances, radio and TV, and electronic components), and the nondefense portions of shipbuilding and repairing and railroad equipment, communication equipment, aircraft and aircraft parts, and ordnance.

Defense products--Based on separate reports on defense work filed by large defense contractors in the following industries: Ordnance, communication equipment, aircraft and aircraft parts, and shipbuilding. The data are comparable to those published annually in the MA-175, "Shipments to Federal Government Agencies" (formerly "Shipments of Defense-Oriented Industries"). for the specified industries.

Table 2. VALUE OF MANUFACTURERS' NEW ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES

SIC	Industry	(Millions of dollars)																
		Seasonally adjusted					Not seasonally adjusted ¹											
		Monthly			Quarterly	Monthly												
		Jan. 1982p	Dec. 1981r	Nov. 1981	Oct. 1981	4Q 1981r	I44 1981	I44 1981	Last 4 months		Oct. 1981	Jan. 1981	Last 4 months a year ago		Nov. 1980	Oct. 1980	1980	
TOTALS																		
	All manufacturing industries.....	157,594	159,469	159,923	159,005	478,397	511,118	508,837	149,853	154,967	158,259	168,150	157,134	161,700	160,864	170,629	1,998,049	1,860,706
	Manufacturing industries excluding transportation.....	139,520	143,398	144,494	143,225	431,117	451,207	450,989	132,033	139,220	141,759	147,987	139,654	144,019	143,471	149,432	1,777,241	1,658,035
	Manufacturing industries with unfilled orders.....	83,840	83,979	84,290	81,476	249,745	271,547	268,697	80,778	82,888	82,758	87,877	83,396	87,098	83,738	90,788	1,055,099	981,849
	Durable goods industries.....	78,394	79,764	79,956	77,804	237,524	263,324	263,647	74,769	77,825	78,472	84,898	80,159	83,964	82,107	90,114	1,020,808	951,169
	Durable goods with unfilled orders.....	67,104	67,259	67,646	64,871	199,776	220,270	217,748	64,695	66,793	66,149	70,482	67,906	71,658	68,105	74,314	863,154	797,775
	Nondurable goods industries.....	79,200	79,705	79,967	81,201	240,873	247,794	245,190	75,084	77,142	79,787	83,252	76,974	77,736	78,757	80,515	977,240	909,536
	Industries with unfilled orders.....	16,736	16,720	16,644	16,605	49,969	51,277	50,949	16,083	16,095	16,609	17,395	15,490	15,440	15,633	16,474	201,943	184,073
	Industries without unfilled orders.....	62,464	62,985	63,323	64,596	190,904	196,517	194,241	59,001	61,047	63,178	65,857	61,485	62,296	63,124	64,041	775,294	725,462
	MARKET CATEGORIES																	
	Home goods and apparel.....	11,190	10,989	11,556	11,578	34,123	37,402	37,187	9,617	9,477	12,018	12,793	10,329	10,044	12,000	13,041	165,479	134,892
	Consumer staples.....	28,444	28,493	28,547	28,655	85,695	87,480	86,647	26,469	28,338	29,111	29,696	26,897	28,946	28,697	29,389	345,823	329,505
	Equipment and defense products, except automotive.....	28,234	25,647	26,956	23,225	75,828	79,749	75,996	26,952	27,333	25,318	26,430	25,517	28,824	22,722	26,360	310,210	291,959
	Automotive equipment.....	10,374	11,805	11,171	12,490	35,466	42,166	43,163	9,882	10,403	11,762	14,210	11,668	11,326	13,460	14,988	158,721	133,322
	Construction materials, supplies, and intermediate products.....	10,671	11,033	11,698	11,571	34,302	37,117	38,764	9,037	10,194	11,285	12,299	10,914	11,875	12,391	13,573	149,162	142,790
	Other materials, supplies, and intermediate products.....	68,681	71,502	69,995	71,486	212,983	227,204	227,079	67,896	69,222	68,765	72,722	71,809	70,685	71,594	73,278	888,643	828,235
	SUPPLEMENTARY SERIES ²																	
	Household durable goods indus- tries.....	5,071	4,836	4,873	4,810	14,519	16,150	16,347	4,337	4,373	4,889	5,117	4,504	4,581	4,909	5,508	63,333	58,182
	Capital goods industries.....	29,509	28,552	28,663	24,826	82,041	89,747	86,133	28,839	29,810	28,089	28,960	28,690	30,540	25,953	29,324	344,264	326,752
	Nondefense.....	22,228	22,518	23,813	20,996	67,327	71,952	71,818	21,395	23,040	22,285	22,905	24,068	24,899	21,742	23,492	281,618	270,571
	Defense.....	7,281	6,034	4,850	3,830	14,714	17,795	14,315	7,444	6,770	5,804	6,055	4,621	5,641	4,211	5,832	62,641	56,181
	INDUSTRY GROUPS AND INDUSTRIES																	
	Durable goods industries:																	
22	Stone, clay, and glass.....	3,648	3,838	3,924	3,899	11,661	12,110	12,686	3,159	3,409	3,816	4,171	3,517	3,618	3,928	4,252	48,859	45,221
33	Primary metals.....	9,268	9,378	10,032	10,170	29,580	33,490	34,964	9,565	9,866	9,285	10,170	10,926	12,094	11,709	12,712	134,411	134,057
331	Blast furnaces, steel mills.....	4,626	4,949	5,124	5,107	15,180	18,540	18,453	4,824	5,399	4,792	4,973	5,500	6,228	6,283	6,373	69,519	63,212
333-5, 9	Nonferrous and other primary metal products.....	3,785	3,698	4,036	3,944	11,678	13,656	13,322	3,895	3,780	3,623	4,042	4,369	4,808	4,302	5,182	52,465	58,694
4	Fabricated metal products.....	8,908	9,270	9,262	9,282	27,814	30,759	31,877	8,274	8,711	8,909	9,707	9,377	10,232	10,103	10,867	121,692	115,993
5	Machinery, except electrical.....	15,385	17,605	17,472	15,984	51,061	51,532	51,889	14,411	17,792	16,525	16,596	16,806	17,915	15,493	16,211	204,948	182,782
51	Engines and turbines.....	1,146	1,730	1,276	1,390	4,396	4,343	4,335	997	1,767	1,058	1,602	1,646	1,160	1,177	1,404	17,146	13,329
53	Construction, mining, and material-handling equipment.....	3,158	3,271	3,613	3,071	9,955	10,520	11,085	3,020	3,323	3,193	3,247	3,520	3,358	2,743	3,311	42,130	35,673
54	Metalworking machinery.....	881	467	645	765	1,877	2,267	2,333	743	457	623	773	863	933	773	866	9,183	11,028
55	General industrial machinery.....	1,300	1,460	1,350	1,551	4,361	4,504	4,526	1,258	1,378	1,300	1,606	1,382	1,261	1,369	1,369	15,186	15,186

Table 2. VALUE OF MANUFACTURERS' NEW ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SHIPMENTS—Continued
(Millions of dollars)

SIC	Industry	Seasonally adjusted					Not seasonally adjusted ¹										Annual	
		Monthly		Quarterly			Monthly											
		Monthly		Quarterly			Monthly					Last 4 months a year ago						
		Jan. 1982p	Dec. 1981r	Nov. 1981	Oct. 1981	IV 1981r	III 1981	II 1981	Jan. 1982p	Dec. 1981r	Nov. 1981	Oct. 1981	Jan. 1981	Dec. 1980	Nov. 1980	Oct. 1980		
36	INDUSTRIAL GROUPS AND INDUSTRIES-- Continued	11,522	11,650	11,873	10,370	33,893	36,462	36,281	11,410	11,120	11,589	11,267	11,215	10,573	11,426	12,135	140,846	130,744
361,2		Electrical machinery.....	1,800	1,917	1,989	1,494	5,400	5,937	5,770	1,768	1,747	1,889	1,568	1,953	1,820	1,739	1,975	22,892
363	Electrical transmission and distribution equipment and industrial apparatus.....	966	963	1,072	946	2,981	3,249	3,477	869	891	969	989	1,029	995	1,031	1,125	13,116	12,518
365	Household appliances.....	1,055	884	766	608	2,258	3,083	2,754	836	877	836	715	728	860	821	947	10,884	8,973
366	Radio and TV.....	3,589	3,397	3,659	2,964	10,020	11,105	10,704	3,821	3,443	3,431	3,579	3,500	3,228	3,412	3,796	41,578	38,248
367	Communication equipment.....	2,274	2,620	2,319	2,323	7,262	6,959	7,405	2,375	2,294	2,305	2,198	2,115	1,841	2,409	2,207	28,201	26,865
37	Electronic components.....	18,074	16,071	15,429	15,780	47,280	59,911	57,848	17,820	15,747	16,500	20,163	17,479	17,681	17,393	21,197	220,808	202,676
372,6	Transportation equipment.....	6,710	4,657	3,966	3,432	12,055	16,839	13,663	6,995	5,543	4,392	5,854	5,395	5,240	3,969	5,891	59,381	63,658
3731	Aircraft, missiles, and parts.....	1,835	606	1,188	764	2,558	3,966	3,996	1,676	570	1,185	1,144	1,252	1,708	812	1,370	14,296	15,408
3795	Shipbuilding and military tank vehicles.....	3,907	4,111	4,378	4,233	12,722	12,822	12,540	3,538	4,204	4,336	4,362	3,669	4,306	3,971	4,067	50,403	46,380
38	Instruments and related products.....	7,682	7,841	7,586	8,086	23,513	24,238	25,563	6,592	6,976	7,512	8,462	7,170	7,544	8,082	8,673	98,826	93,314
24	All other durable goods industries.....																	

^pPreliminary. ^rRevised.

¹Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations. Unfilled orders and inventories are as of the end of the period and are not adjusted for trading-day or calendar-month variations.

²The supplementary series are regroupings of the separate industry categories as follows:

Household durable goods industries--Household furniture; kitchen articles and pottery; cutlery, handtools, and hardware; household appliances, radio and TV; ophthalmic goods, watches, and miscellaneous personal goods.
Capital goods industries--Comparable to the previous producers' capital goods and the defense products (old series) categories.
Nondefense products--Machinery, except electrical (excluding farm machinery and equipment and machine shops), electrical machinery (excluding household appliances, radio and TV, and electronic components), and the nondefense portions of shipbuilding and repairing and railroad equipment, communication equipment, aircraft and aircraft parts, and ordnance.
Defense products--Based on separate reports on defense work filed by large defense contractors in the following industries: Ordnance, communication equipment, aircraft and aircraft parts, and shipbuilding.
The data are comparable to those published annually in the MA-11/5, 'Shipments to Federal Government Agencies' (formerly 'Shipments of Defense-Oriented Industries'), for the specified industries.

Table 3. VALUE OF MANUFACTURES' UNFILLED ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES
(Millions of dollars)

SIC	Industry	Seasonally adjusted												Not seasonally adjusted ¹											
		Monthly				Quarterly				Last 4 months				Monthly				Last 4 months a year ago							
		Jan. 1982 ^p	Dec. 1981 ^r	Nov. 1981	Oct. 1981	III 1981	II 1981	I 1981	IV 1980	III 1980	Dec. 1981 ^r	Nov. 1981	Oct. 1981	Jan. 1981	Dec. 1980	Nov. 1980	Oct. 1980								
	TOTALS																								
	All manufacturing industries.....	320,107	319,865	321,478	323,538	328,613	325,918	323,602	319,729	315,027	317,931	318,635	321,651	322,700	317,661	313,558	314,186								
	Manufacturing industries excluding transportation.....	203,581	205,918	206,195	206,881	210,540	210,403	207,405	206,686	200,514	203,322	202,562	204,428	206,435	203,339	200,265	200,030								
	Durable goods industries.....	110,084	109,611	110,993	112,681	117,460	114,477	112,598	108,815	104,133	112,210	107,918	110,908	111,769	106,995	103,009	103,361								
	Nondurable goods industries.....	10,223	10,254	10,483	10,857	11,153	11,441	11,005	10,913	10,895	10,302	10,013	10,743	10,931	10,666	10,549	10,825								
	MARKET CATEGORIES																								
	Home goods and apparel.....	4,177	4,163	4,320	4,517	4,921	4,854	4,664	3,988	4,085	3,909	3,796	4,111	3,915	3,688	3,760	4,046								
	Consumer staples.....																								
	Equipment and defense products, except automotive.....																								
	Automotive equipment.....																								
	Construction materials, supplies, and intermediate products.....	193,516	190,237	191,510	191,219	193,108	190,926	191,324	186,876	183,272	194,927	190,252	191,593	190,791	186,838	183,134	183,629								
	Other materials, supplies, and intermediate products.....	16,294	16,791	17,151	17,017	17,371	17,607	17,409	17,587	17,399	16,235	16,480	16,853	17,335	17,248	17,227	17,394								
	Supplementary series ²	106,320	108,674	108,497	110,785	113,213	112,531	110,206	111,277	110,270	107,441	107,403	106,648	110,659	109,887	109,437	109,117								
	HOUSEHOLD DURABLE GOODS INDUSTRIES																								
	Household durable goods industries.....	3,046	3,007	3,093	3,348	3,735	3,732	3,628	2,954	3,084	2,744	2,693	2,904	2,834	2,707	2,752	3,029								
	Capital goods industries.....	223,946	221,617	222,462	222,716	225,758	221,984	220,323	216,028	214,413	226,067	221,815	222,701	223,056	216,111	213,470	213,958								
	Nondefense.....	139,999	140,737	142,969	143,589	146,126	147,288	147,924	147,673	147,300	140,177	139,479	142,280	144,001	146,471	145,598	146,594								
	Defense ³	83,947	80,880	79,473	79,127	79,632	74,696	72,398	68,355	67,113	85,890	82,336	80,421	79,055	69,640	67,872	67,364								
	INDUSTRY GROUPS AND INDUSTRIES																								
	Durable goods industries																								
32	Stone, clay, and glass.....	2,108	2,257	2,261	2,177	2,124	2,292	2,288	2,460	2,426	2,087	2,101	2,093	2,335	2,294	2,341	2,390								
33	Primary metals.....	25,278	26,599	27,026	27,627	28,521	28,595	28,955	30,248	28,010	25,686	25,893	25,117	25,946	29,656	28,342	27,823								
331	Blast furnaces, steel mills.....	15,194	15,977	16,171	16,565	17,168	16,897	16,926	17,439	15,742	15,346	15,482	14,862	16,634	16,898	16,310	15,583								
333-6,9	Nonferrous and other primary metal products.....	6,959	7,392	7,522	7,638	8,062	8,425	8,557	9,008	8,476	7,168	7,200	6,988	7,363	8,775	8,302	8,519								
34	Fabricated metal products.....	28,462	28,746	28,917	29,150	29,856	30,362	30,134	30,189	29,800	28,495	28,545	28,682	29,072	29,969	29,746	29,873								
35	Machinery, except electrical.....	73,649	74,713	74,526	74,499	75,440	74,602	74,396	72,650	72,650	73,312	73,820	73,990	74,139	73,515	72,144	72,000								
351	Engines and turbines.....	18,629	18,605	18,194	18,411	18,413	18,474	18,241	17,905	17,864	18,518	18,764	18,317	18,658	18,417	18,098	18,075								
353	Construction, mining, and material-handling equipment.....	10,687	11,057	11,031	11,031	11,343	10,989	9,760	8,765	8,141	10,665	10,711	10,802	9,199	8,748	8,307	8,293								
354	Metallurgical machinery.....	4,465	4,810	5,234	5,500	5,736	6,459	7,035	7,292	7,661	4,439	4,797	5,255	7,255	7,248	7,360	7,559								
356	General industrial machinery.....	6,596	6,590	6,615	6,745	6,669	6,547	6,306	6,177	6,287	6,596	6,497	6,596	6,705	6,092	6,206	6,190								

See footnotes at end of table.

Table 1. VALUE OF MANUFACTURES: UNFILLED ORDERS FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY INDUSTRIES - continued

(Millions of dollars)

SIC	Industry group	Seasonally adjusted												Monthly							
		Yearly			Quarterly			Last 4 months						Monthly							
		Jan. 1982 ^a	Dec. 1981 ^a	Nov. 1981	Oct. 1981	III 1981	II 1981	I 1981	IV 1980	III 1980	Jan. 1982 ^a	Dec. 1981 ^a	Nov. 1981	Oct. 1981	Jan. 1981	Dec. 1980	Nov. 1980	Oct. 1980			
36	Durable goods industries--continued	51,953	51,593	51,072	50,634	51,526	50,124	48,494	47,225	45,819	51,828	50,741	50,630	50,624	47,706	46,477	46,350	46,211			
361	Electrical machinery.....	8,204	8,172	8,161	8,055	8,429	8,392	8,361	7,967	7,905	8,113	8,040	8,074	8,059	8,127	7,844	7,845	7,981			
362	Electrical transmission and distribution equipment and industrial appliances.....	16,339	16,339	16,329	16,316	16,390	16,333	16,345	16,411	16,451	16,360	16,288	16,274	16,297	16,371	16,350	16,354	16,389			
363	Radio and TV.....	314	308	321	328	397	422	482	346	346	415	418	409	397	318	311	321	349			
364	Communication equipment.....	29,528	29,180	28,938	28,543	28,823	27,542	26,365	25,427	23,863	29,816	28,975	28,833	28,616	26,124	25,280	24,914	24,364			
365	Electronic components.....	1,193	1,286	12,084	12,122	12,062	12,207	11,733	12,019	12,135	12,010	11,905	11,903	11,964	11,616	11,659	12,061	12,108			
366	Transportation equipment.....	116,736	113,927	115,283	116,657	118,073	115,515	116,198	113,043	114,513	119,190	115,369	116,291	117,223	116,265	114,322	113,293	114,156			
367	Aircraft, missiles, and parts.....	92,436	90,435	91,187	92,010	93,126	90,504	91,299	88,371	90,466	94,977	91,877	92,012	92,446	91,322	89,668	89,179	89,888			
368	Shipbuilding and military tank vehicles.....	17,081	16,387	16,944	16,972	17,303	16,953	16,478	16,087	15,421	17,039	16,398	17,129	17,157	16,330	16,068	15,489	15,695			
369	Instruments and related products.....	7,160	7,160	7,290	7,059	7,067	7,056	7,012	6,987	6,863	7,125	7,117	7,145	7,008	6,970	6,942	6,699	6,828			
37	All other durable goods industries.....	4,746	4,646	4,642	4,878	4,853	4,955	4,915	4,267	4,050	4,487	4,337	4,488	4,745	4,220	4,021	3,948	4,016			

^aPreliminary^bRevised.

¹Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations; unfilled orders and inventories are of the end of the period and are not adjusted for trading-day or calendar-month variations.

²The supplementary series are regroupings of the separate industry categories as follows:

Household-durable goods industries--household furniture; kitchen articles and pottery; cutlery, hand tools, and hardware; household appliances, radio and TV, ophthalmic goods, watches, and clocks; and jewelry.

Non-durable goods industries--comparable to the previous producers' capital goods and the defense products (old series) categories.

Non-defense products--machinery, except electrical (excluding farm machinery and equipment and machine shops), electrical machinery (excluding household appliances, radio and TV, and electronic components), the non-defense portions of shipbuilding and repairing and railroad equipment, communication equipment, aircraft and aircraft parts, and ordnance.

Defense products--based on separate reports on defense work filed by large defense contractors in the following industries: Ordnance, communication equipment, aircraft and aircraft parts, and shipbuilding.

The data are comparable to those published annually in the VA-17's, "Shipments to Federal Government Agencies" (formerly "Shipments of Defense-Related Industries") for the special technology.

Beginning in 1976, the fiscal year for the Federal Government probably affected the awarding of contracts and other financial arrangements. Although the impact of this change is not known, the use of previous established seasonal factors would have substantially distorted the current data since these seasonal factors reflect historical government purchasing patterns. Therefore, beginning in July 1977, new composite seasonal factors were developed by combining the existing end of fiscal year information with data for the previous calendar quarter (i.e., one quarter preceding the end of the fiscal year). These composite factors are applied to the unfilled orders data for each of the separately tabulated defense industries. This adjustment also modified the new orders data. Similar adjustments could not be made for nondefense government orders since such data are not compiled separately. This method of calculating the seasonal factors will be used until a sufficient amount of data are available to assess the impact of the change in the fiscal year on the seasonal pattern of the defense industries.

Table 4. VALUE OF MANUFACTURERS' INVENTORIES FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES
(Millions of dollars)

SIC	Industry	Not seasonally adjusted ¹												
		Seasonally adjusted						Monthly						
		Monthly			Quarterly			Last 4 months			Last 4 months a year ago			
		Jan. 1982p	Dec. 1981r	Nov. 1981	Oct. 1981	III 1981	II 1981	I 1981	IV 1980	III 1980	Jan. 1981r	Dec. 1980	Nov. 1980	Oct. 1980
TOTALS														
	All manufacturing industries.....	275,314	276,414	279,544	278,440	276,616	269,709	266,524	257,980	256,845	276,267	274,790	277,405	254,257
	Manufacturing industries excluding transportation.....	235,811	236,703	239,294	238,176	237,192	231,081	228,413	221,170	221,393	236,760	235,796	236,988	219,436
	Manufacturing industries with unfilled orders.....	190,080	190,899	192,625	191,584	189,850	183,036	180,275	176,756	173,241	189,426	188,578	190,268	171,577
	Durable goods industries.....	186,435	185,226	187,275	186,718	185,140	178,676	176,229	171,603	170,163	184,660	183,148	185,149	168,354
	Durable goods with unfilled orders.....	169,376	169,927	171,569	170,673	169,027	162,821	160,227	155,430	153,986	169,153	168,092	169,779	152,138
	Nondurable goods industries.....	90,879	91,188	92,269	91,722	91,476	91,033	90,295	86,377	86,672	91,807	91,642	92,256	87,045
	Nondurable goods with unfilled orders.....	20,704	20,972	21,056	20,911	20,823	20,215	20,047	19,326	19,245	20,273	20,486	20,489	18,806
MARKET CATEGORIES														
	Home goods and apparel.....	22,489	22,773	23,064	22,570	21,982	21,410	21,201	20,663	20,395	22,069	21,914	21,814	19,772
	Consumer staples.....	33,082	33,005	33,020	33,184	33,142	32,658	32,680	32,201	31,988	33,726	33,516	33,991	33,327
	Equipment and defense products, except automotive.....	76,084	76,359	76,570	76,180	75,148	73,240	71,400	69,908	69,288	75,970	75,490	76,193	68,857
	Automotive equipment.....	11,082	11,364	11,570	11,866	11,714	11,530	11,775	11,872	11,589	11,363	11,129	11,743	11,457
	Construction materials, supplies, and intermediate products.....	22,333	22,575	22,901	22,795	23,006	22,393	21,602	21,266	20,809	22,371	22,210	22,109	20,210
	Other materials, supplies, and intermediate products.....	110,244	110,338	112,419	111,845	111,624	108,478	107,666	102,070	102,767	110,770	110,531	111,555	100,634
SUPPLEMENTARY SERIES														
	Household durable goods industries.....	10,789	10,880	11,037	10,981	10,719	10,250	10,236	9,992	9,980	10,608	10,594	10,627	9,584
	Capital goods industries.....	85,588	85,825	86,513	86,053	85,074	82,376	80,456	78,245	77,469	85,226	84,621	86,091	77,119
	Nondefense.....	71,759	72,183	72,972	72,985	72,055	69,676	68,473	67,224	67,021	71,564	71,233	72,666	66,501
	Defense.....	13,829	13,642	13,541	13,068	13,019	12,700	11,984	11,021	10,447	13,662	13,388	13,425	10,618
INDUSTRY GROUPS AND INDUSTRIES														
	Durable goods industries:													
32	Stone, clay, and glass products	6,820	6,967	6,953	6,923	7,037	6,599	6,398	6,145	6,016	6,863	6,818	6,658	5,807
322	Glass containers.....	614	654	647	659	644	595	608	593	584	599	627	640	577
33	Primary metals.....	25,197	25,194	25,361	25,268	25,087	23,334	23,640	21,976	22,022	25,594	25,643	25,301	21,880
331	Blast furnaces, steel mills.....	13,079	13,089	13,129	13,148	13,120	12,169	12,722	11,844	12,152	13,458	13,626	13,260	12,000
333-34	Nonferrous and other primary metals.....	10,675	10,619	10,727	10,617	10,511	9,819	9,563	8,802	8,564	10,707	10,576	10,598	9,584
34	Fabricated metal products.....	20,566	20,314	20,733	20,598	20,440	19,973	19,812	19,773	19,395	20,344	19,979	20,159	10,728
341	Metal cans, barrels, and drums.....	1,498	1,343	1,510	1,582	1,578	1,571	1,637	1,744	1,578	1,440	1,193	1,291	8,464
35	Machinery, except electrical.....	42,311	42,472	42,502	42,282	42,017	40,342	39,618	39,189	39,726	42,406	42,112	42,147	18,957
351	Engines and turbines.....	2,531	2,552	2,585	2,622	2,585	2,423	2,423	2,474	2,457	2,535	2,538	2,593	1,402
352	Farm machinery and equipment.....	2,761	2,799	2,767	2,652	2,712	2,749	2,801	2,774	2,825	2,799	2,799	2,664	38,972
353	Construction, mining, and material-handling equipment.....	9,434	9,764	9,623	9,522	9,213	8,789	8,469	8,446	8,650	9,759	9,715	9,546	2,665
354	Metallworking machinery.....	2,492	2,647	2,665	2,612	2,749	2,636	2,626	2,760	2,855	2,692	2,612	2,642	2,501
356	General industrial machinery.....	3,958	3,876	3,984	4,008	3,872	3,753	3,603	3,561	3,627	3,994	3,845	3,924	2,884

See footnotes at end of table.

Table 4. VALUE OF MANUFACTURERS' INVENTORIES FOR INDUSTRY GROUPS, MARKET CATEGORIES, AND SUPPLEMENTARY SERIES--Continued

(Millions of dollars)

SIC	Industry	Seasonally adjusted					Not seasonally adjusted											
		Monthly			Quarterly		Monthly					Quarterly						
		Jan. 1982P	Dec. 1981*	Nov. 1981	Oct. 1981	III 1981	II 1981	I 1981	IV 1980	III 1980	Jan. 1982P	Dec. 1981*	Nov. 1981	Oct. 1981	Jan. 1981	Dec. 1980	Nov. 1980	Oct. 1980
36	Electrical machinery.....	26,232	26,325	26,976	26,865	26,517	25,689	25,057	24,383	24,350	25,903	25,848	26,477	26,492	24,457	23,951	23,978	24,112
361.2	Electrical transmission and distribution equipment and industrial apparatus.....	4,480	4,528	4,792	4,806	4,744	4,488	4,263	4,163	4,222	4,462	4,518	4,746	4,764	4,182	4,152	4,101	4,165
363	Household appliances.....	1,979	1,999	2,134	2,134	2,021	1,934	1,905	1,874	1,843	1,940	1,844	1,989	2,021	1,844	1,817	1,727	1,745
365	Radio and TV.....	1,788	1,783	1,783	1,762	1,664	1,492	1,444	1,311	1,292	1,713	1,725	1,712	1,686	1,314	1,282	1,241	1,251
366	Communication equipment.....	8,905	8,911	8,935	8,882	8,859	8,886	8,774	8,630	8,589	8,878	8,907	8,869	8,714	8,686	8,692	8,667	8,667
367	Electronic components.....	4,830	4,856	5,030	4,992	4,874	4,795	4,560	4,557	4,450	4,762	4,807	4,924	4,937	4,500	4,511	4,409	4,441
37	Transportation equipment.....	39,503	39,711	40,250	40,264	39,424	38,628	38,111	36,810	35,442	39,507	38,994	40,417	40,213	37,650	36,104	35,365	35,819
371	Motor vehicles and parts.....	8,678	8,970	9,453	9,453	9,316	9,275	9,605	9,694	9,409	8,870	8,691	9,351	9,321	9,829	9,393	9,388	9,387
372.6	Aircraft, missiles, and parts	26,526	26,286	26,499	25,997	25,468	24,820	24,001	22,918	21,835	26,351	25,921	26,303	25,832	23,490	22,594	22,259	22,186
373.1	Shipbuilding and military tank vehicles.....	2,352	2,462	2,573	2,742	2,596	2,636	2,612	2,265	2,105	2,263	2,337	2,705	2,823	2,288	2,145	2,344	2,234
38	Instruments and related products.....	9,596	9,765	9,771	9,714	9,738	9,603	9,380	9,281	9,037	9,556	9,493	9,571	9,576	9,287	9,020	9,051	9,009
381-4	Scientific and engineering.....	6,827	6,910	6,963	6,900	6,912	6,842	6,593	6,474	6,309	6,854	6,827	6,865	6,824	6,518	6,391	6,350	6,312
386	Photographic goods.....	2,287	2,375	2,316	2,320	2,342	2,247	2,259	2,243	2,172	2,236	2,199	2,225	2,267	2,219	2,079	2,150	2,145
24	All other durable goods industries.....	14,230	14,478	14,729	14,804	14,880	14,508	14,213	14,046	14,175	14,287	14,261	14,419	14,537	14,135	13,854	13,744	13,808
20	Nondurable goods industries:																	
201	Food and kindred products.....	21,145	21,101	21,619	21,600	21,826	21,862	22,237	22,325	22,368	21,830	21,739	22,840	22,741	22,877	23,060	23,992	23,642
208	Beverages.....	2,092	2,013	2,086	2,130	2,067	2,267	2,272	2,271	2,138	2,100	2,187	2,150	2,132	2,290	2,239	2,428	2,253
207	Fats and oils.....	3,940	3,873	3,824	3,817	3,863	3,743	3,909	3,866	3,770	3,980	3,881	3,839	3,897	3,930	4,874	3,809	3,868
203-6.9	All other foods.....	11,502	11,856	12,267	12,370	12,481	12,456	12,476	12,428	12,480	12,032	12,389	13,162	13,359	12,790	12,987	13,490	13,511
21	Tobacco products.....	4,339	4,243	4,036	4,043	3,966	3,570	3,689	3,507	3,628	4,630	4,494	4,145	4,087	3,946	3,715	3,797	3,708
22	Textile mill products.....	6,441	6,688	6,709	6,676	6,642	6,604	6,518	6,386	6,102	6,468	6,504	6,459	6,395	6,466	6,212	6,027	5,916
26	Paper and allied products.....	8,722	8,817	8,822	8,664	8,332	8,332	8,286	7,798	7,818	8,356	8,721	8,698	8,533	7,944	7,718	7,712	7,665
261-3	Pulp, paper, etc.....	3,326	3,301	3,291	3,213	3,123	3,018	2,972	2,794	2,894	3,274	3,289	3,264	3,176	2,874	2,785	2,824	2,862
265	Paperboard containers.....	2,296	2,385	2,403	2,335	2,337	2,255	2,188	1,973	1,971	2,264	2,347	2,357	2,286	2,047	1,942	1,918	1,913
264	All other paper containers.....	3,100	3,131	3,128	3,116	3,128	3,059	3,126	3,032	2,953	3,027	3,085	3,077	3,071	3,022	2,991	2,970	2,890
28	Chemicals and allied products.....	20,368	20,438	20,755	20,722	20,363	20,218	19,488	18,489	18,478	20,719	20,709	20,622	20,301	19,221	18,748	18,482	18,035
281.6	Industrial chemicals, except pigments.....	6,743	6,788	6,884	6,856	6,810	6,961	6,693	6,244	6,200	6,898	6,910	6,891	6,760	6,587	6,363	6,300	6,037
283.4	Drugs, soap, and toiletries.....	6,122	6,041	5,994	5,998	5,867	5,839	5,819	5,612	5,596	6,055	5,987	5,964	5,926	5,655	5,368	5,077	5,560
29	Petroleum and coal products.....	8,789	8,680	8,663	8,772	9,206	9,996	9,885	8,240	8,805	8,906	8,948	8,986	9,087	8,536	8,495	8,431	8,639
30	Rubber and plastics products, and miscellaneous personal goods.....	5,455	5,508	5,801	5,729	5,703	5,634	5,538	5,279	5,232	5,542	5,550	5,590	5,565	5,405	5,319	5,050	5,125
23	All other nondurable goods industries.....	15,640	15,713	15,864	15,516	15,182	14,817	14,656	14,353	14,243	15,147	14,977	14,916	15,021	14,086	13,700	13,554	13,910

Preliminary. Revised.

*Shipments and new orders are the totals for the period and are adjusted for trading-day and calendar-month variations; unfilled orders and inventories are as of the end of the period and are not adjusted for trading-day or calendar-month variations.

The supplementary series are regroupings of the separate industry categories as follows:

Household durable goods industries--Household furniture; kitchen articles and pottery; cutlery, handtools, and hardware; household appliances, radio and TV, ophthalmic goods, watches, and clocks and miscellaneous personal goods.

Capital goods industries--Comparable to the previous producers' capital goods and the defense products (old series) categories.

Nondefense products--Machinery, except electrical (excluding farm machinery and equipment and machine shops), electrical machinery (excluding household appliances, radio and TV, and electronic components) and the nondefense portions of shipbuilding and repairing and railroad equipment, communication equipment, aircraft and aircraft parts, and ordnance.

Defense products--Based on separate reports on defense work filled by large defense contractors in the following industries: Ordnance, communication equipment, aircraft and aircraft parts, and shipbuilding.

The data are comparable to those published annually in the M-175, "Shipments to Federal Government Agencies" (formerly "Shipments of Defense-Oriented Industries"), for the specified industries.

Table 5. VALUE OF MANUFACTURERS' INVENTORIES, BY STAGE OF FABRICATION, BY INDUSTRY GROUP
(millions of dollars)

Industry	Seasonally adjusted					Not seasonally adjusted					Monthly					Quarterly					Monthly					Last 4 months					Last 4 months in year-ago				
	Seasonally adjusted					Not seasonally adjusted					Monthly					Quarterly					Monthly					Last 4 months					Last 4 months in year-ago				
	Jan. 1982 ^a	Dec. 1981 ^a	Nov. 1981	Oct. 1981	III 1981	II 1981	I 1981	IV 1980	III 1980	II 1980	Jan. 1982 ^b	Dec. 1981 ^b	Nov. 1981	Oct. 1981	Jan. 1981	Dec. 1980	Nov. 1980	Oct. 1980	Jan. 1982 ^c	Dec. 1981 ^c	Nov. 1981	Oct. 1981	Jan. 1981	Dec. 1980	Nov. 1980	Oct. 1980									
TOTALS																																			
All manufacturing industries.....	275,314	276,414	279,244	278,440	276,616	269,709	266,526	257,980	256,835		276,267	276,790	277,405	276,060	262,735	256,584	255,199	254,257																	
Durable goods industries.....	186,615	185,276	187,275	186,718	185,160	178,676	176,229	171,603	170,163		186,660	183,168	185,169	186,310	174,255	169,616	168,356	167,617																	
Stone, clay, and glass products.....	6,840	6,967	6,953	6,923	7,037	6,599	6,398	6,165	6,016		6,861	6,818	6,698	6,613	6,263	6,020	5,807	5,788																	
Primary metals.....	25,197	25,194	25,461	25,268	25,087	23,436	23,610	21,976	22,022		25,595	25,663	25,301	26,971	23,136	22,390	21,880	21,666																	
Fabricated metals.....	20,508	20,733	20,733	20,598	20,660	19,973	19,812	19,773	19,395		20,366	19,979	20,159	20,227	19,926	19,396	18,957	18,753																	
Nonferrous machinery.....	42,311	42,502	42,502	42,282	42,017	40,362	39,618	39,189	39,726		43,406	42,111	42,147	41,681	39,402	38,884	38,972	38,663																	
Electrical machinery.....	26,232	26,325	26,976	26,865	26,517	25,689	25,057	24,383	24,503		25,903	25,868	26,677	26,492	24,457	23,951	23,978	24,112																	
Transportation equipment.....	39,553	39,711	40,250	40,266	39,626	38,111	36,810	36,828	35,662		39,506	38,994	40,471	40,213	37,650	36,106	35,965	35,819																	
Textile and apparel products, n.e.c.....	9,596	9,715	9,771	9,714	9,738	9,603	9,380	9,281	9,037		9,536	9,493	9,571	9,571	9,287	9,020	9,051	9,009																	
Food and kindred products, n.e.c.....	13,230	13,678	14,729	14,806	16,880	16,508	16,213	16,066	16,175		16,587	16,261	16,619	16,537	16,135	13,856	13,746	13,808																	
All other durable goods industries.....	90,819	91,188	92,269	91,722	91,676	91,033	90,295	88,377	86,672		91,807	91,662	92,256	91,730	88,480	86,967	87,065	86,660																	
Chemicals and allied products.....	8,789	8,789	8,789	8,789	8,789	8,789	8,789	8,789	8,789		8,789	8,789	8,789	8,789	8,789	8,789	8,789	8,789																	
Petroleum and coal products.....	5,655	5,655	5,655	5,655	5,655	5,655	5,655	5,655	5,655		5,655	5,655	5,655	5,655	5,655	5,655	5,655	5,655																	
Rubber and plastics products, n.e.c.....	56,287	56,562	57,050	56,699	56,206	55,185	55,385	56,369	56,158		56,660	56,435	57,058	56,777	55,319	56,405	55,082	54,861																	
All other nondurable goods industries.....	93,870	93,946	96,762	96,366	96,187	92,127	91,907	89,380	88,701		96,372	96,666	96,099	96,116	91,833	89,960	88,312	88,665																	
MANUFACTURES																																			
All manufacturing industries.....	56,900	57,740	57,740	57,668	57,495	55,816	55,495	53,808	53,587		56,989	57,045	57,615	57,094	55,326	53,998	53,062	53,179																	
Durable goods industries.....	2,619	2,686	2,686	2,698	2,719	2,691	2,532	2,466	2,278		2,651	2,773	2,668	2,668	2,500	2,477	2,289	2,289																	
Stone, clay, and glass products.....	9,351	9,357	9,426	9,374	9,315	8,869	9,041	8,924	9,000		9,515	9,786	9,661	9,666	9,593	9,328	9,029	9,063																	
Primary metals.....	7,571	7,667	7,720	7,670	7,606	7,272	7,040	7,269	7,081		7,500	7,683	7,601	7,601	7,430	7,200	6,968	6,991																	
Fabricated metals.....	11,810	11,562	11,620	11,680	11,682	11,212	10,863	10,993	11,176		11,797	11,617	11,507	11,696	10,966	10,966	10,990	11,066																	
Nonferrous machinery.....	7,738	7,703	7,903	7,928	7,798	7,581	7,229	7,379	7,379		7,619	7,559	7,662	7,756	7,173	7,173	7,096	7,237																	
Electrical machinery.....	9,609	9,807	9,807	9,807	9,807	9,762	9,594	8,836	8,274		9,697	9,740	10,071	10,073	9,133	8,597	8,494	8,660																	
Transportation equipment.....	2,910	2,842	2,899	2,901	2,854	2,885	2,865	2,786	2,852		2,916	2,826	2,868	2,869	2,965	2,777	2,763	2,760																	
Textile and apparel products, n.e.c.....	5,632	5,585	5,739	5,701	5,792	5,566	5,520	5,365	5,547		5,694	5,580	5,790	5,663	5,463	5,244	5,143	5,253																	
All other durable goods industries.....	36,909	37,122	37,927	36,716	36,692	36,311	36,612	35,572	35,116		37,283	37,621	36,686	36,620	36,507	35,962	35,270	35,066																	
Chemicals and allied products.....	7,868	7,932	7,932	7,856	7,921	7,794	7,875	7,668	7,365		7,896	7,918	7,720	7,757	7,789	7,698	7,653	7,309																	
Petroleum and coal products.....	2,335	2,335	2,335	2,335	2,335	2,335	2,335	2,335	2,335		2,335	2,335	2,335	2,335	2,335	2,335	2,335	2,335																	
Rubber and plastics products, n.e.c.....	2,270	2,312	2,312	2,357	2,367	2,367	2,373	2,250	2,085		2,365	2,382	2,336	2,347	2,301	2,307	2,045	2,154																	
All other nondurable goods industries.....	24,616	24,557	26,666	26,257	26,210	23,391	23,690	23,678	23,340		24,193	24,155	24,193	23,957	24,155	23,803	23,560	23,181																	
WORK IN PROCESS																																			
All manufacturing industries.....	98,412	98,619	99,637	99,208	98,651	96,376	95,366	92,042	90,668		98,182	97,334	99,388	98,812	93,928	90,789	90,616	90,104																	
Durable goods industries.....	86,069	86,466	85,574	86,986	86,083	81,769	80,584	77,935	76,691		83,975	83,006	84,873	84,388	79,624	76,725	76,699	76,063																	
Stone, clay, and glass products.....	1,002	1,033	1,008	1,008	1,044	929	933	851	857		993	961	927	935	891	790	781	786																	
Primary metals.....	10,148	9,941	9,966	9,913	9,888	9,107	8,951	7,960	7,999		10,776	9,961	9,831	9,779	9,529	7,927	7,885	7,707																	
Fabricated metals.....	8,025	8,006	8,129	8,069	8,069	7,886	7,815	7,777	7,602		7,901	7,967	7,888	7,967	7,867	7,509	7,416	7,352																	
Nonferrous machinery.....	17,971	18,463	18,766	18,654	18,537	17,828	17,864	17,556	17,473		18,172	18,122	18,767	18,483	17,952	17,427	17,570	17,301																	
Electrical machinery.....	13,616	13,551	13,716	13,661	13,551	13,290	12,893	12,452	12,116		13,287	13,287	13,628	13,636	12,472	12,206	12,258	12,236																	
Transportation equipment.....	25,870	25,536	26,337	26,265	26,065	25,022	24,600	23,902	23,116		25,736	25,187	26,232	26,004	24,519	23,561	23,508	23,432																	
Textile and apparel products, n.e.c.....	4,176	4,249	4,242	4,255	4,238	4,059	4,066	4,066	4,066		4,182	4,155	4,183	4,200	4,921	4,934	4,997	4,908																	
Food and kindred products, n.e.c.....	3,663	3,439	3,436	3,381	3,433	3,351	3,353	3,353	3,353		3,440	3,428	3,447	3,466	3,471	3,466	3,466	3,461																	
All other durable goods industries.....	14,363	14,373	14,003	14,222	14,568	14,607	14,782	14,107	13,957		14,257	14,328	14,515	14,626	14,306,																				

Table 6. PERCENT CHANGES AND REVISIONS FOR MANUFACTURERS' SHIPMENTS, INVENTORIES, AND ORDERS

(Based on seasonally adjusted data)

Item and industry group	Percent changes							Revisions ²		
	Month-to-month			Average monthly rates of change ¹				Year ago Jan. 1981	Average monthly	
	Dec. 1981- Jan. 1982	Nov. 1981- Dec. 1982	Oct. 1981- Nov. 1981	Fourth quarter 1981	Third quarter 1981	Second quarter 1981	Jan. 1981- Jan. 1982		Jan.- Dec. 1981	Jan. 1977- 1981
Shipments:										
All manufacturing industries.....	-2.4	-0.6	-1.3	-1.5	-0.6	+1.1	-0.3	0.0	0.2	0.3
Durable goods industries.....	-4.0	-0.6	-1.1	-2.0	-1.0	+1.4	-0.6	0.1	0.4	0.6
Nondurable goods industries.....	-0.9	-0.5	-1.4	-1.0	+0.1	+0.8	-0.1	0.2	0.3	0.4
Inventories:										
All manufacturing industries.....	-0.4	-1.1	+0.4	-0.0	+0.8	+0.4	+0.5	0.3	0.1	0.2
New orders:										
All manufacturing industries.....	-1.2	-0.3	+0.6	-1.8	-0.5	+0.7	-0.5	0.3	0.4	0.6
Durable goods industries.....	-1.7	-0.2	+2.8	-2.6	-0.8	+0.6	-0.8	0.3	0.6	0.7
Nondurable goods industries.....	-0.6	-0.3	-1.5	-1.0	-0.2	+0.8	-0.1	0.3	0.4	0.5
Unfilled orders:										
Durable goods industries.....	+0.2	-0.4	-0.5	-0.8	+0.3	+0.2	0.0	0.1	0.1	0.1

- Represents zero.

¹Method of calculation of these percentages for the quarter and the 12-month time intervals reflect compounded monthly growth rates.²The revisions are the differences between the month-to-month percent changes of the preliminary and final estimates. The monthly averages are the simple averages of the differences, without regard to sign, for the months specified. The advance to final percent change differences for the durable goods industries are shown in the advance report for the month.

Table 7. RATIO OF MANUFACTURERS' INVENTORIES TO SHIPMENTS AND UNFILLED ORDERS TO SHIPMENTS, BY INDUSTRY GROUP

(Based on seasonally adjusted data)

Industry group	Inventories--shipments ratio				Unfilled orders--shipments ratio ¹ (months' backlog)			
	Jan. 1982	Dec. 1981	Nov. 1981	Oct. 1981	Jan. 1982	Dec. 1981	Nov. 1981	Oct. 1981
All manufacturing industries.....	1.75	1.72	1.73	1.70	3.84	3.74	3.72	3.74
Durable goods industries.....	2.37	2.28	2.29	2.26	4.65	4.51	4.49	4.49
Stone, clay, and glass products.....	1.80	1.82	1.80	1.80	0.64	0.68	0.67	0.65
Primary metals.....	2.38	2.57	2.38	2.28	2.39	2.71	2.54	2.50
Fabricated metals.....	2.24	2.15	2.18	2.06	3.44	3.36	3.33	3.17
Machinery, except electrical.....	2.57	2.44	2.44	2.50	4.72	4.60	4.57	4.73
Electrical machinery.....	2.36	2.36	2.36	2.39	4.67	4.62	4.47	4.50
Transportation equipment.....	2.59	2.28	2.40	2.34	12.35	10.61	11.25	11.59
Instruments and related products.....	2.46	2.30	2.36	2.29	1.83	1.69	1.76	1.66
Nondurable goods industries.....	1.15	1.14	1.15	1.13	0.61	0.60	0.62	0.64
Food and kindred products.....	0.99	0.99	1.01	0.98	(X)	(X)	(X)	(X)
Tobacco products.....	3.67	3.56	3.44	3.68	(X)	(X)	(X)	(X)
Textile mill products.....	1.64	1.73	1.71	1.64	(NA)	(NA)	(NA)	(NA)
Paper and allied products.....	1.32	1.35	1.35	1.34	(NA)	(NA)	(NA)	(NA)
Chemicals and allied products.....	1.33	1.29	1.35	1.38	(X)	(X)	(X)	(X)
Petroleum and coal products.....	0.57	0.56	0.55	0.53	(X)	(X)	(X)	(X)
Rubber and plastics products, n.e.c.....	1.44	1.49	1.59	1.45	(X)	(X)	(X)	(X)

(NA) Not available. ^PPreliminary. ^RRevised. (X) Not applicable.¹Excludes the following industries with no unfilled orders: Wood and lumber products; glass containers; metal cans, barrels, and drums; farm machinery and equipment; motor vehicle assembly operation; other transportation equipment; foods and related products; tobacco; apparel and related products; building paper; die-cut paper and board; chemicals; petroleum and coal products; and rubber and plastics products, n.e.c.

DESCRIPTION OF SURVEY

The Manufacturers' Shipments, Inventories, and Orders Survey provides broad-based monthly statistical data on economic conditions in the domestic manufacturing sector. It is designed to measure current industrial activity and to provide an indication of future trends. The data are used extensively by the executive branch of the Government in developing economic, fiscal, and monetary policy; by the Bureau of Economic Analysis (BEA) as components of the gross national product estimates; and by trade associations, corporate economists, and other members of the business community as an analytical tool in their assessment of the current and future economic condition of the country.

The M3 shipments and inventory data are comparable to the totals published in the Annual Survey of Manufactures (ASM). The ASM is a sample survey of approximately 70,000 manufacturing establishments drawn from a 5-year census of manufactures universe of about 350,000 manufacturing establishments. In the ASM, each manufacturing location reports data on value of shipments, beginning and end-of-year inventories, as well as various other economic variables.

The monthly M3 estimates through 1980 are based on information obtained from approximately 4,500 reporting units and include most manufacturing companies with 1,000 or more employees. In addition, selected smaller companies are included to strengthen the sample coverage in individual industry categories. For firms which operate in a single M3 industry category, the reporting unit typically comprises all operations of the company. At the request of the Census Bureau, most large, diversified companies file separate reports for divisions which operate in different industrial areas.

Each company or reporting unit of a company in the survey is classified into 1 of 79 industry categories for which separate estimates are made based on the major activity of the reporting unit. Some reporting units include industry activities outside the M3 category in which they are classified. The survey methodology assumes that the month-to-month changes of the reporting units classified in each industry category effectively represent the month-to-month movements of the establishments in the SIC industries which make up the category.

The M3 series is periodically benchmarked to the Census of Manufactures and the ASM for shipments and inventories. The most recent benchmark included data for 1977 and 1978. Since benchmark data for unfilled orders are not available, levels are based upon the ratio of unfilled orders to shipments of reporting companies. In the 1977-1978 benchmark report, unfilled orders levels were revalued based on unfilled orders to shipments ratios of reporting companies in the monthly M3 survey; the MA-300, a one-time annual supplemental survey of multi-establishment companies; and the ASM for single-establishment companies.

MONTHLY ESTIMATING PROCEDURE

The monthly estimates of shipments, unfilled orders, and total inventories are derived for each industry category by

multiplying the industry estimate for the previous month by the percentage change from the previous month for companies reporting in the current month.

Though collected as a separate item, new orders are not calculated according to the standard ratio-estimate procedure. The reason for this is that not all companies report new orders and some that do report this item limit their reporting to specific products for which long lead times are required in the production cycle. These companies, in effect, exclude new orders received for products that are shipped from inventory. New orders are, therefore, computed by adjusting the current month's shipments by the change in the backlog of unfilled orders. (New orders equal current month shipments plus current month unfilled orders minus prior month unfilled orders.) Thus, the estimate of new orders includes orders that are received and filled in the same month as well as new orders that have not yet been filled. Also included are the effects of cancellations and modifications on previously reported orders.

SEASONAL ADJUSTMENT

The monthly data on shipments, inventories, and unfilled orders are adjusted for seasonality at the most detailed level tabulated in the survey, using the X-11 variant of the Census Bureau's seasonal adjustment program. Data from January 1958 through December 1980 are included in the calculations of the factors used in this publication.

Seasonally adjusted industry aggregates are derived by adding seasonally adjusted components rather than by direct seasonal adjustment of the aggregates. New orders data are not independently seasonally adjusted but are derived at the most detailed levels from the seasonally adjusted shipments and the change in the seasonally adjusted unfilled orders and then similarly aggregated.

EXPLANATION OF TERMS

Value of Shipments—The shipments estimates published in the monthly survey are equivalent to value of shipments as reported in the ASM which are net selling values, f.o.b. plant, after discounts and allowances and excluding freight charges and excise taxes. Included in shipments is the value of all products sold, transferred to other plants of the same company, or shipped on consignment.

Shipments also include receipts for contract work performed for others, resales, receipts for miscellaneous activities such as the sale of scrap and refuse; value of installation and repair work performed by employees of the plant; and value of research and development performed at the plant. In the shipbuilding industry, the value of shipments in a given time period varies considerably from the value of work done because of the long lead time between the input of the materials and labor and the delivery of the completed ship. For this industry and for aircraft and missile producers working under cost-plus contracts, the value of work done during the year is requested rather than the value of shipments.

The value of shipments figures developed from the ASM contain duplication at the all manufacturing and M3 industry

category levels since the products of some four-digit SIC industries are used as materials by other industries within the same industry aggregate. The significance of the duplication within the specific M3 industry categories varies depending on their four-digit industry composition. It is most pronounced in a few highly integrated industry areas, such as primary metals and motor vehicles and parts.

For multiunit companies, the M3 reports received each month typically are not plant reports but are company or divisional level reports that encompass groups of plants. The actual sales reported are usually net sales and receipts from customers and exclude the duplication of interplant transfers. The reported sales are used to calculate month-to-month changes which bring forward the plant-based shipments for the industry category as estimated in the ASM.

Inventories—In the monthly survey and in the ASM, respondents are asked to report their inventories at book values. Since different methods of inventory valuation are used (LIFO, FIFO, etc.), the definition of the value of aggregate inventories for all plants in an industry is not precise.

There are also some inconsistencies between the M3 company or divisional reported inventory levels as compared with the ASM establishment reported levels. The change in the value of inventories, month-to-month as well as year-to-year, is considered to have greater significance and reliability.

Inventory data are requested from respondents by stage of fabrication, i.e., finished goods, work in process, and raw materials and supplies. However, the quality of these data is limited due to lower response rates and the inclusion of the same type of inventory under different stages of fabrication in the aggregate statistics.

New Orders Received and Unfilled Orders—Orders as reported in the monthly survey are net of cancellations received during the month on orders previously reported. They include orders received and filled during the month as well as orders received for future delivery. They also include the net sales value of contract changes which increase or decrease the sales value of the unfilled orders to which they relate. Orders are defined to include only those supported by binding legal documents such as signed contracts, letters of award, or letters of intent, although in some industries this definition may not be strictly applicable. In the case of letters of intent, the full amount of the sales value is included if the parties are in substantial agreement on the amount; otherwise, only the funds specifically authorized to be expended are included.

Unfilled orders include orders as defined above that have not been reflected as shipments. Generally, unfilled orders at the end of the reporting period are equal to unfilled orders at the beginning of the period plus net new orders received less net shipments.

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